RAW SEQUENCE LISTING
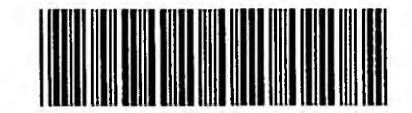
The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/6032393_

Source: _FNI6_

Date Processed by STIC: _5/18/5_

ENTERED

RAW SEQUENCE LISTING   DATE: 05/18/2005
PATENT APPLICATION: US/10/632,393 TIME: 12:15:15

Input Set : A:\13428pct.txt
Output Set: N:\CRF4\05182005\J632393.raw

```
 4 <110> APPLICANT: ORCHID BIOSCIENCES, INC.
 5       MCKEOWN, Brian
 6       DERBYSHIRE, Roger
 7       ROWAN, Paul
 8       SUNG, Robert
10 <120> TITLE OF INVENTION: Methods and Compositions for Genotyping
13 <130> FILE REFERENCE: 13428PCT
C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/632,393
16 <141> CURRENT FILING DATE: 2003-08-01
18 <150> PRIOR APPLICATION NUMBER: 60/400,533
19 <151> PRIOR FILING DATE: 2002-08-02
21 <150> PRIOR APPLICATION NUMBER: 10/328,150
22 <151> PRIOR FILING DATE: 2002-12-20
24 <160> NUMBER OF SEQ ID NOS: 47
26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 652
30 <212> TYPE: DNA
31 <213> ORGANISM: Ovis aries
33 <400> SEQUENCE: 1
34 gctgtgccgc ttcacccaac tgaggccttc tcattcttca ctttgtagtc aaggaatctg 60
35 cagcccagaa gctcctccat tttcctccag actagcccag gtctcatacc ctttggtttc 120
36 acctttctgt acttctttca tgttgcccag gataattcct catcattact tgtcaaatgg 180
37 ttgtgttctc cctgggctac agattagatg aggttgggaa ttcccttttc actgcctctg 240
38 tatctcaata gcagccccat gccaaacact tcccagggac tgagtaaaga tttccccaaa 300
39 gggtgagtga atgttgagga aaggcagaaa gcaatcctcc ttaagtggga tatcagaatg 360
40 ctgagcttaa cttgaaaccg tttctaaacc atagactctt atttaaagga aaccaacatg 420
41 aaaatgccaa caccacctta tttacaaggt actttgttca ctagagctat taaagggctg 480
42 tgttgatggg aagctgtgta taattgtagg tattatgcca gagaccgctt tctgtcaggc 540
43 tgccagacca aaggggtagg gaccgtactc tagagaccct cacccaacag gatgattaaa 600
44 cgaatttgta agggttaata gatgggcggt ggctcattaa aaccaactct aa        652
46 <210> SEQ ID NO: 2
47 <211> LENGTH: 27
48 <212> TYPE: DNA
49 <213> ORGANISM: Ovis aries
51 <400> SEQUENCE: 2
52 ccctgctcac ccttttctct ggatgct                                    27
54 <210> SEQ ID NO: 3
55 <211> LENGTH: 25
56 <212> TYPE: DNA
57 <213> ORGANISM: Ovis aries
59 <400> SEQUENCE: 3
60 gagaaggcct cagttgggtg aagcg                                      25
```

RAW SEQUENCE LISTING
PATENT APPLICATION: **US/10/632,393**

DATE: 05/18/2005
TIME: 12:15:15

Input Set : **A:\13428pct.txt**
Output Set: **N:\CRF4\05182005\J632393.raw**

```
62 <210> SEQ ID NO: 4
63 <211> LENGTH: 45
64 <212> TYPE: DNA
65 <213> ORGANISM: Ovis aries
67 <400> SEQUENCE: 4
68 tcctcgatta cttgtcagcc ctgctcaccc ttttctctgg atgct           45
70 <210> SEQ ID NO: 5
71 <211> LENGTH: 45
72 <212> TYPE: DNA
73 <213> ORGANISM: Ovis aries
75 <400> SEQUENCE: 5
76 tcctcgatta cctgtcagcc ctgctcaccc ttttctctgg atgct           45
78 <210> SEQ ID NO: 6
79 <211> LENGTH: 27
80 <212> TYPE: DNA
81 <213> ORGANISM: Ovis aries
83 <400> SEQUENCE: 6
84 ggttttacca ggcctgaact ctctcca                               27
86 <210> SEQ ID NO: 7
87 <211> LENGTH: 24
88 <212> TYPE: DNA
89 <213> ORGANISM: Ovis aries
91 <400> SEQUENCE: 7
92 agaaaagggt gagcagggct gaca                                  24
94 <210> SEQ ID NO: 8
95 <211> LENGTH: 547
96 <212> TYPE: DNA
97 <213> ORGANISM: Ovis aries
99 <400> SEQUENCE: 8
100 tcagctcctt tctgcagggc agccactgca cacctttctt ctgtgtcctt tcaggatgtc 60
101 ctgtgcacac acaagtatat atatatacac atatgtgtac acacacatat ataaatccta 120
102 ggattagaat ctctggctca agggattttg tgtcctgtag atactgtgtt ttcgtttttc 180
103 tgactttttc ctgcacactg tagactacac cgtgtgctac cctgcatttg cgattatcag 240
104 ggaacatgtc ttggacgtcg tccacagcag cccctccaga cctgcccatt cctcctgctc 300
105 aggcattcca tactgtgaat cacttgctta accacacctt gactgatggg gacacttact 360
106 tcttttcact gtgtcttata atgcagccct ggatatcctt acacttattt ccttggctac 420
107 ttgtatgagg acctttgtag gattaaattt gataactaga attgtggatc aaaaggtttg 480
108 tgcattttca ctttgataag gatgaccaca ccctaggatg gttggctggg atccctttct 540
109 ctaacat                                                                547
111 <210> SEQ ID NO: 9
112 <211> LENGTH: 28
113 <212> TYPE: DNA
114 <213> ORGANISM: Ovis aries
116 <400> SEQUENCE: 9
117 ccatatgaaa tgctcattgc tgtcctca                              28
119 <210> SEQ ID NO: 10
120 <211> LENGTH: 28
121 <212> TYPE: DNA
122 <213> ORGANISM: Ovis aries
```

RAW SEQUENCE LISTING   DATE: 05/18/2005
PATENT APPLICATION: US/10/632,393   TIME: 12:15:15

Input Set : **A:\13428pct.txt**
Output Set: **N:\CRF4\05182005\J632393.raw**

```
124 <400> SEQUENCE: 10
125 gacacagaag aaaggtgtgc agtggctg                                    28
127 <210> SEQ ID NO: 11
128 <211> LENGTH: 66
129 <212> TYPE: DNA
130 <213> ORGANISM: Ovis aries
132 <400> SEQUENCE: 11
133 ccaaagatcc tctggagcta actcctatgg tctagttgcc atatgaaatg ctcattgctg 60
134 tcctca                                                            66
136 <210> SEQ ID NO: 12
137 <211> LENGTH: 66
138 <212> TYPE: DNA
139 <213> ORGANISM: Ovis aries
141 <400> SEQUENCE: 12
142 ccaaagatcc tctggagcta actcctatgg tctacttgcc atatgaaatg ctcattgctg 60
143 tcctca                                                            66
145 <210> SEQ ID NO: 13
146 <211> LENGTH: 69
147 <212> TYPE: DNA
148 <213> ORGANISM: Ovis aries
150 <400> SEQUENCE: 13
151 aaatcggttg gattcgcttg acggaagtat tgagagtcgt ggacacagaa gaaaggtgtg 60
152 cagtggctg                                                         69
154 <210> SEQ ID NO: 14
155 <211> LENGTH: 69
156 <212> TYPE: DNA
157 <213> ORGANISM: Ovis aries
159 <400> SEQUENCE: 14
160 aaatcggttg gattcgcttg acggaagtat tgagactcgt ggacacagaa gaaaggtgtg 60
161 cagtggctg                                                         69
163 <210> SEQ ID NO: 15
164 <211> LENGTH: 30
165 <212> TYPE: DNA
166 <213> ORGANISM: Ovis aries
168 <400> SEQUENCE: 15
169 agatcctctg gagctaactc ctatggtcta                                  30
171 <210> SEQ ID NO: 16
172 <211> LENGTH: 26
173 <212> TYPE: DNA
174 <213> ORGANISM: Ovis aries
176 <400> SEQUENCE: 16
177 acagcaatga gcatttcata tggcaa                                      26
179 <210> SEQ ID NO: 17
180 <211> LENGTH: 25
181 <212> TYPE: DNA
182 <213> ORGANISM: Ovis aries
184 <400> SEQUENCE: 17
185 gcacaccttt cttctgtgtc cacga                                       25
187 <210> SEQ ID NO: 18
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RAW SEQUENCE LISTING   DATE: 05/18/2005
PATENT APPLICATION: US/10/632,393   TIME: 12:15:16

Input Set : **A:\13428pct.txt**
Output Set: **N:\CRF4\05182005\J632393.raw**

188 <211> LENGTH: 26
189 <212> TYPE: DNA
190 <213> ORGANISM: Ovis aries
192 <400> SEQUENCE: 18
193 ggattcgctt gacggaagta ttgaga   26
195 <210> SEQ ID NO: 19
196 <211> LENGTH: 22
197 <212> TYPE: DNA
198 <213> ORGANISM: Ovis aries
200 <400> SEQUENCE: 19
201 cctcccattg gctgtcctgg aa   22
203 <210> SEQ ID NO: 20
204 <211> LENGTH: 23
205 <212> TYPE: DNA
206 <213> ORGANISM: Ovis aries
208 <400> SEQUENCE: 20
209 gctgccctgc agaaaggagc tga   23
211 <210> SEQ ID NO: 21
212 <211> LENGTH: 75
213 <212> TYPE: DNA
214 <213> ORGANISM: Ovis aries
216 <400> SEQUENCE: 21
217 tgaggatcca ctggatagct gaagctctgg acacgatgac atcgtcaagg tggtagccac 60
218 agtcagtgga acaag   75
220 <210> SEQ ID NO: 22
221 <211> LENGTH: 75
222 <212> TYPE: DNA
223 <213> ORGANISM: Ovis aries
225 <400> SEQUENCE: 22
226 tgaggatcca ctggatagct gaagctctgg acatgatggc atcgtcaagg tggtagccac 60
227 agtcagtgga acaag   75
229 <210> SEQ ID NO: 23
230 <211> LENGTH: 69
231 <212> TYPE: DNA
232 <213> ORGANISM: Ovis aries
234 <400> SEQUENCE: 23
235 atgcacgcat agctgatacg gtcacctgta acatccgaag gtggtggtgg tgactgtgtg 60
236 ttgcttgac   69
238 <210> SEQ ID NO: 24
239 <211> LENGTH: 69
240 <212> TYPE: DNA
241 <213> ORGANISM: Ovis aries
243 <400> SEQUENCE: 24
244 atgcacgcat agctgatacg gtcacctgta ccatctgaag gtggtggtgg tgactgtgtg 60
245 ttgcttgac   69
247 <210> SEQ ID NO: 25
248 <211> LENGTH: 26
249 <212> TYPE: DNA
250 <213> ORGANISM: Ovis aries

Input Set : **A:\13428pct.txt**
Output Set: **N:\CRF4\05182005\J632393.raw**

```
252 <400> SEQUENCE: 25
253 tgactgtggc taccaccttg acgatg·                                       26
255 <210> SEQ ID NO: 26
256 <211> LENGTH: 27
257 <212> TYPE: DNA
258 <213> ORGANISM: Ovis aries
260 <400> SEQUENCE: 26
261 tccactggat agctgaagct ctggaca                                       27
263 <210> SEQ ID NO: 27
264 <211> LENGTH: 26
265 <212> TYPE: DNA
266 <213> ORGANISM: Ovis aries
268 <400> SEQUENCE: 27
269 aacacacagt caccaccacc accttc                                        26
271 <210> SEQ ID NO: 28
272 <211> LENGTH: 27
273 <212> TYPE: DNA
274 <213> ORGANISM: Ovis aries
276 <400> SEQUENCE: 28
277 cacgcatagc tgatacggtc acctgta                                       27
279 <210> SEQ ID NO: 29
280 <211> LENGTH: 600
281 <212> TYPE: DNA
282 <213> ORGANISM: Ovis aries
284 <400> SEQUENCE: 29
285 agagcgaata tacacataca ttttgaacaa gtttatatat ttttactcca aactcagttc 60
286 tgatgcccag atggagaaaa aaataggaga aaaatatttt tccatgtaag aaaaagtata 120
287 ccagtgaagc aaaatgcatt gtgcttctta tctaattatt gctacataaa aacacaaaat 180
288 tttatctcta cgatttcaga actatttact tgataaccta gtagtaaaag gaattttgta 240
289 tgttctcatt ttgcacattg tctcattcag actttccttt tatatgtatt atcttcagtg 300
290 ttaacatatt gtaaaatgtt tcattgtcac tcatattctg attttaagac agaagtacat 360
291 tttaagcatc aatttcaact taaacaaaat tgccttctca caaaattggc tgttattctg 420
292 ataaccaaaa gggctaagtg gaagagacat ataattactt attctaaaat tgtagaattt 480
293 ggcaagaagt gagacttatt tgattcattt ataaaacatg taaacaaaag acagttatcc 540
294 tctgcctgaa ttaaaataga tgagtttttc ataaaaataa ataagtgact gttctcatgc 600
297 <210> SEQ ID NO: 30
298 <211> LENGTH: 78
299 <212> TYPE: DNA
300 <213> ORGANISM: Ovis aries
302 <400> SEQUENCE: 30
303 ttccaatctt tacggtatgt cgcccatctt gctgagtagt gagccatggt acatagtaga 60
304 gattttctct ctctcgct                                                 78
306 <210> SEQ ID NO: 31
307 <211> LENGTH: 78
308 <212> TYPE: DNA
309 <213> ORGANISM: Ovis aries
311 <400> SEQUENCE: 31
312 ttccaatctt tacggtatgt cgcccatctt gctcagtagt gagccatggt acatagtaga 60
313 gattttctct ctctcgct                                                 78
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VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/632,393**

DATE: 05/18/2005
TIME: 12:15:17

Input Set : **A:\13428pct.txt**
Output Set: **N:\CRF4\05182005\J632393.raw**

L:15 M:270 C: Current Application Number differs, Replaced Current Application Number